Flight-Testing Newton's Laws						
2006 Science						
Grade Level and Grade Span Expectations						
New Hampshire Sc	ience					
Grades 9-11	State	Standards				
Activity/Lesson	State	Statiuatus	Recognize that the strength of the gravitational			
			force between two masses is proportional to the			
		SCI.9-	masses and inversely proportional to the square			
Session-10 (1-5)	NH	I	of the distance between them.			
			Interpret and apply the laws of motion to			
		SCI.9-	determine the effects of forces on the motion of			
Session-10 (1-5)	NH	11.S:PS3:11:2.1	objects.			
Session-1 (1-17)	NH	SCI.9- 11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects.			
			Interpret and apply the laws of motion to			
		SCI.9-	determine the effects of forces on the motion of			
Session-1 (1-17)	NH	11.S:PS3:11:2.1	objects. Apply the concepts of inertia, motion, and			
Session-1 (1-17)	NH	SCI.9- 11.S:PS3:11:2.3	momentum to predict and explain situations involving forces and motion, including stationary objects and collisions.			
Session-2 (1-10)	NH	SCI.9- 11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects.			
Session-2 (1-10)	NH	SCI.9- 11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.			
Session-3 (1-6)	NH	SCI.9- 11.S:PS3:11:2.1	Interpret and apply the laws of motion to determine the effects of forces on the motion of objects.			
Session-3 (1-6)	NH	SCI.9- 11.S:PS3:11:2.3	Apply the concepts of inertia, motion, and momentum to predict and explain situations involving forces and motion, including stationary objects and collisions.			
Session-4 (1-11)	NH	SCI.9- 11.S:PS3:11:1.8	Given information (e.g., graphs, data, diagrams), use the relationships between or among force, mass, velocity, momentum, and acceleration to predict and explain the motion of objects. Apply the concepts of inertia, motion, and momentum to predict and explain situations			
		SCI.9-	involving forces and motion, including stationary			
Session-4 (1-11)	NH	I	objects and collisions.			

			Given information (e.g., graphs, data, diagrams),
			use the relationships between or among force,
		SCI.9-	mass, velocity, momentum, and acceleration to
Session-5 (1-6)	NH	11.S:PS3:11:1.8	predict and explain the motion of objects.
()			Interpret and apply the laws of motion to
		SCI.9-	determine the effects of forces on the motion of
Session-5 (1-6)	NH	11.S:PS3:11:2.1	objects.
(1 0)		11.0.1 00.11.2.1	Interpret and apply the laws of motion to
		SCI.9-	determine the effects of forces on the motion of
Session-6 (1-8)	NH	11.S:PS3:11:2.1	objects.
()			
			Given information (e.g., graphs, data, diagrams),
			use the relationships between or among force,
		SCI.9-	mass, velocity, momentum, and acceleration to
Session-7 (1-5)	NH	11.S:PS3:11:1.8	predict and explain the motion of objects.
(1 0)		11.0.1 00.111.10	Interpret and apply the laws of motion to
		SCI.9-	determine the effects of forces on the motion of
Session-7 (1-5)	NH	11.S:PS3:11:2.1	objects.
	1111		
			Given information (e.g., graphs, data, diagrams),
			use the relationships between or among force,
		SCI.9-	mass, velocity, momentum, and acceleration to
Session-8 (1-9)	NH	11.S:PS3:11:1.8	predict and explain the motion of objects.
00001011 0 (1 0)	1411	11.0.1 00.11.1.0	Interpret and apply the laws of motion to
		SCI.9-	determine the effects of forces on the motion of
Session-8 (1-9)	NH	11.S:PS3:11:2.1	objects.
(1 0)		11.0.1 00.11.2.1	
			Given information (e.g., graphs, data, diagrams),
			use the relationships between or among force,
		SCI.9-	mass, velocity, momentum, and acceleration to
Session-9 (1-7)	NH	11.S:PS3:11:1.8	predict and explain the motion of objects.
()			Interpret and apply the laws of motion to
		SCI.9-	determine the effects of forces on the motion of
Session-9 (1-7)	NH	11.S:PS3:11:2.1	objects.
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	FI	ight-Testing Newto	n's Laws
		2006 Science	
	Grade Le	evel and Grade Spa	n Expectations
New Hampshire Sci	ence		
Grades 11-12			
Activity/Lesson	State	Standards	
		SCI.11-	Ask questions about relationships between and
		12.S:SPS1:12:1.	among observable variables as well as
Session-10 (1-5)	NH	4	theoretical entities.
		SCI.11-	Ask questions about relationships between and
		12.S:SPS1:12:1.	among observable variables as well as
Session-1 (1-17)	NH	4	theoretical entities.
, ,			Make measurements and observations about a
		SCI.11-	variety of events and phenomena, including
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		12.S:SPS1:12:1.	those that occur during very small and very